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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/609,475	07/01/2003	Akio Sugimoto	KOBE.0052	1029
38327 7. REED SMITH L	590 01/16/2007 .LP	EXAMINER		
3110 FAIRVIEV	V PARK DRIVE, SUI	VO, HAI		
FALLS CHURCH, VA 22042			ART UNIT	PAPER NUMBER
			1771	
<del>, </del>		<u> </u>		
SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS 01/16/2007		01/16/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary		Application No.	Applicant(s)		
		10/609,475	SUGIMOTO ET AL.		
		Examiner	Art Unit		
		Hai Vo	1771		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
VVHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in an analysis of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Or period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMM 36(a). In no event, however, mill apply and will expire SIX (6 cause the application to become	JNICATION. ay a reply be timely filed  MONTHS from the mailing date of this communication.		
Status					
2a)⊠	Responsive to communication(s) filed on <u>17 Oct</u> This action is <b>FINAL</b> . 2b) This Since this application is in condition for allowant closed in accordance with the practice under <i>E</i>	action is non-final. nce except for formal			
Dispositi	on of Claims				
5)	Claim(s) 1-4,6 and 8-32 is/are pending in the a 4a) Of the above claim(s) 19-22 is/are withdraw Claim(s) is/are allowed. Claim(s) 1-4, 6, 8-18 and 23-32 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers The specification is objected to by the Examiner The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the content of the oath or declaration is objected to by the Examiner The oath or declaration is objected to by the Examiner Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examiner The oath or declaration is objected to by the Examiner Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examiner The oath or decl	r election requirement r. epted or b) objected drawing(s) be held in absion is required if the dra	d to by the Examiner. eyance. See 37 CFR 1.85(a). wing(s) is objected to. See 37 CFR 1.121(d).		
Priority u	ınder 35 U.S.C. § 119				
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
2) Notic 3) Infor	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	Pape	iew Summary (PTO-413) No(s)/Mail Date e of Informal Patent Application		

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1. All of the art rejections are repeated.

2. The claim objections have been withdrawn in view of the cancellation of claim 7.

## Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

# Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-4, 6, 8-18 and 23-32 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Sato et al (US 4,734,323). Sato discloses a laminate structure comprising a panel surface (hard metal plate) 1, an adhesive 20, a retainer layer 21 and a foam layer 23 (figure 6). Sato discloses that the vibration damping layer 7 and the sound proof layer 8 were

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attached, set to the panel surface of a vehicle and then heated to form the vibration damping layer and the porous soundproof layer respectively (column 16, lines 25-30). The porous soundproof layer has a thickness of 10 mm while the vibration layer has a thickness of 1 mm (table 6). Likewise, it is clearly apparent that the porous soundproof is thick enough to enhance a rigidity of the panel surface of the vehicle. Sato also discloses a laminate structure comprising a metal plate 9, a foam layer 8 and a retainer layer 7 as shown in figure 7. The three layers have been laminated to one another prior to the metal plate 9 being formed to a desired shape (column 14, lines 35-46). The retainer layer 12 and the foam layer 23 are made from chemically different resins (example 5). The foam layer includes 1,2-polybutadiene having a melting point of 80°C while the retainer layer includes a thermosetting phenol resin which has a melting point much higher than the melting point of 1,2-polybutadiene (column 3, lines 15-17, column 4, lines 5-10). Likewise, the resins of the retainer layer and the foam layer would have different melting temperatures and foaming temperatures. Since Sato uses the same resin to form the foam layer as Applicants, it is not seen that the melting point of the resin would be outside the claimed range. This is in line with *In re Spada*, 15 USPQ 2d 1655 (1990) which holds that products of identical chemical composition can not have mutually exclusive properties. Thermally fusion, mixing the foaming agent, setting the foaming temperature are directed to product-by-process limitations. However, they are not as yet shown to produce a patentably distinct article. It is the examiner's position that the laminate structure is identical to or only slightly different than the claimed article prepared by

the method of the claim, because both articles are formed from the same materials, having structural similarity. The laminate structure comprises of a foam layer/nonfoam layer/hard plate. Even though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or an obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process. In re Thorpe, 227 USPQ 964, 966 (Fed. Cir. 1985). The burden has been shifted to the applicant to show unobvious differences between the claimed product and the prior art product. In re Marosi, 218 USPQ 289,291 (Fed. Cir. 1983). It is noted that if the applicant intends to rely on Examples in the specification or in a submitted Declaration to show non-obviousness, the applicant should clearly state how the Examples of the present invention are commensurate in scope with the claims and how the Comparative Examples are commensurate in scope with Sato. Accordingly, it is the examiner's position that Sato anticipates or strongly suggests the claimed subject matter.

6. Claims 1-4, 6, 8-18, and 23-32 are rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Wycech (US 6,372,334). Wycech discloses a laminate structure comprising a metal substrate 1, a compliant foam layer 5, a rigid foam layer 6 and a backing film layer 7 (figure 5-7 and 9). Wycech discloses a first foamable resin and a second foamable resin are adhered to a hard plate prior to heating (column 3, lines 65-67, column 4, lines 1-3,

and column 4, lines 55-62). The flat upper surface and flat lower surface of the laminate as shown in figure 3 indicates that the metal plate 1 is not formed into a desired shape prior to the lamination. The rigid layer stiffens the panel (column 2, lines 60-61). Wycech discloses the polymers of the two foam layers are different (column 2, line 65 to column 3, line 1). Likewise, their melting points will be different. Wycech discloses the polymer of the rigid foam layer can be made from a material as taught by US 5,575,526 whose details have been incorporated by the reference. The '526 patent discloses the foam layer made from a thermoplastic resin, and a blowing agent. The backing layer 7 is a foil which reads on Applicant's hard metal plate (column 2, lines 33-34). The first foamable resin layer, the second foamable resin layer and backing layer are formed in a desired shape as shown in figures 5-7. Mixing the foaming agent, setting the foaming temperature are directed to productby-process limitations. However, they are not as yet shown to produce a patentably distinct article. It is the examiner's position that the laminate structure is identical to or only slightly different than the claimed article prepared by the method of the claim. because both articles are formed from the same materials, having structural similarity. The laminate structure comprises of a foam layer/foam layer/hard plate. Even though product-by-process claims are limited by and defined by the process. determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the productby-process claim is the same as or an obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different

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process. *In re Thorp*e, 227 USPQ 964, 966 (Fed. Cir. 1985). The burden has been shifted to the applicant to show unobvious differences between the claimed product and the prior art product. *In re Marosi*, 218 USPQ 289,291 (Fed. Cir. 1983). It is noted that if the applicant intends to rely on Examples in the specification or in a submitted Declaration to show non-obviousness, the applicant should clearly state how the Examples of the present invention are commensurate in scope with the claims and how the Comparative Examples are commensurate in scope with Wycech. Accordingly, it is the examiner's position that Wycech anticipates or strongly suggests the claimed subject matter.

### Response to Arguments

7. The art rejections based on Sato have been maintained for the following reasons. Applicants argue that neither of the cited references teaches or suggests the panel surface (hard metal plate) is further formed into a desired shape after the laminate is placed on the panel surface. The arguments are not found persuasive because they are not commensurate in scope with the claims. What the claims require is the nonfoamable material laminated to the foamable material before the hard metal plate is formed into a desired shape. Likewise, it is clearly apparent that the hard metal plate with a desired shape could be then bonded to the laminate which includes the non-foamable material laminated to the foamable material. Therefore, the claimed subject matter does not exclude a laminate structure as disclosed by Sato. It is suggested that the foamable resin layer, the non-foamable resin layer and the metal

plate together then formed in a desired shape after the lamination of the foamable resin layer to the non-foamable resin layer in order to exclude Sato as a prior art.

8. The art rejections based on Wycech have been maintained for the following reasons. Applicants argue that Wycech does not teach a hard metal plate can be shaped while layers of a foamable resin and a non-foamable resin are adhered to the hard metal plate. The examiner respectfully disagrees. Wycech discloses that the backing layer 7 is a foil which reads on Applicant's hard metal plate (column 2, lines 33-34). The first foamable resin layer, the second foamable resin layer and backing layer are formed in a desired shape as shown in figures 5-7.

#### Conclusion

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hai Vo whose telephone number is (571) 272-1485. The examiner can normally be reached on Monday through Thursday, from 9:00 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terrel Morris can be reached on (571) 272-1478. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Hai Vo

HAI VO PRIMARY EXAMINER